# MONITORING WELL COMPLETION LOG GRN01-0181

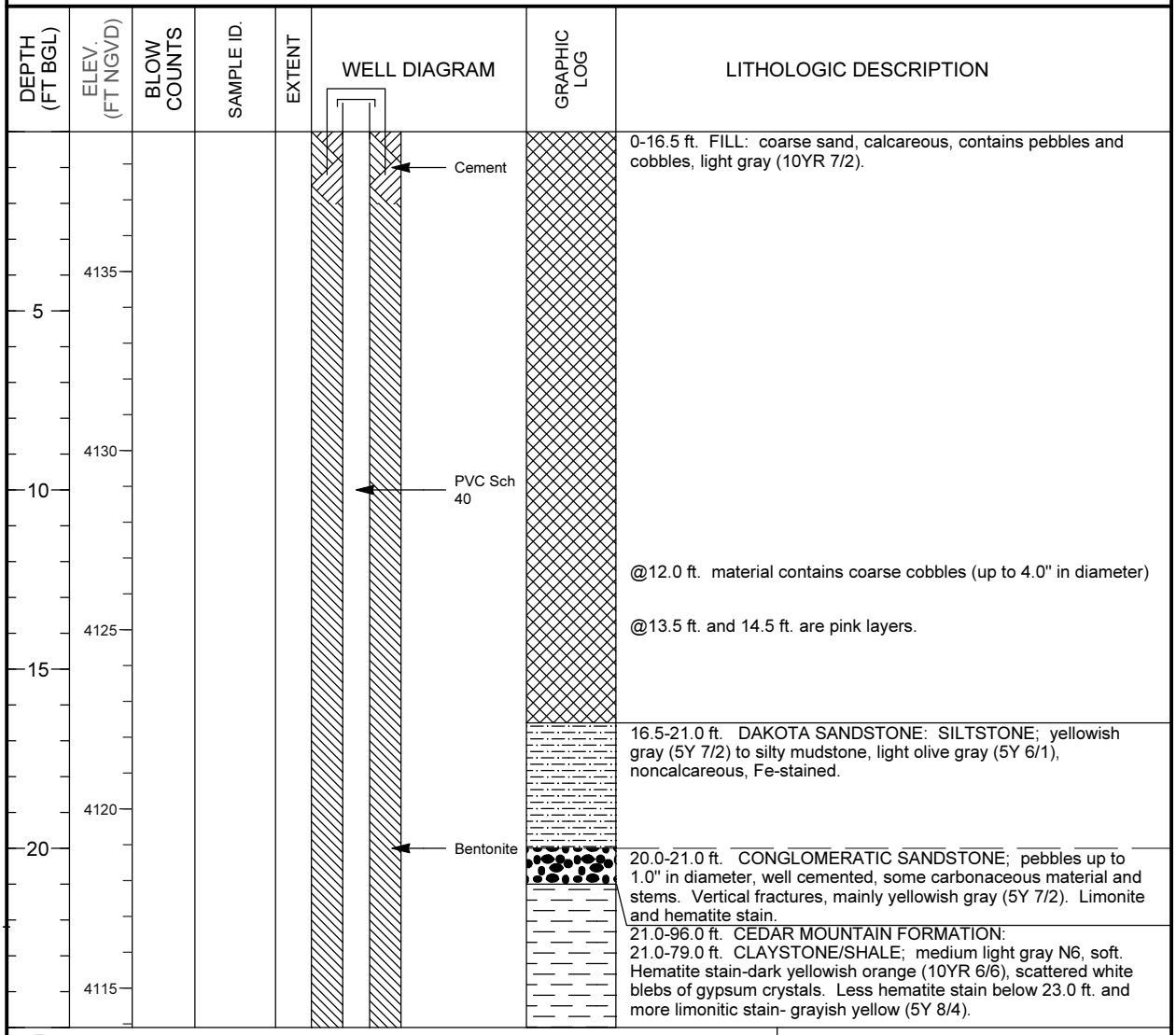
**PROJECT** UMTRA GROUND WATER
**LOCATION** GREEN RIVER, UT
**SITE** GREEN RIVER
**WELL NUMBER** 0181

**NORTH COORD. (FT)** 238075.43
**EAST COORD. (FT)** 2387359.16
**HOLE DEPTH (FT)** 96.00
**WELL DEPTH (FT)** 92.00

**DATE DRILLED** 06/13/2002 to 06/19/2002
**SURFACE ELEV. ( FT NGVD)** 4138.90
**TOP OF CASING (FT)** 4141.10
**MEAS. PT. ELEV. (FT)** 4141.10
**SLOT SIZE (IN)** 0.020
**BIT SIZE(S) (IN)** 8.0

| WELL INSTALLATION | | INTERVAL (FT) | | |
|---|---|---|---|---|
| **SURFACE CASING:** | | | | |
| **BLANK CASING:** | 4 in. PVC Sch 40 | -2.2 | to | 77.0 |
| **WELL SCREEN:** | 4 in. 0.02 Slotted PVC | 77.0 | to | 92.0 |
| **SUMP/END CAP:** | | | | |
| **SURFACE SEAL:** | Cement | 0.0 | to | 2.0 |
| **GROUT:** | Bentonite | 2.0 | to | 69.0 |
| **SEAL:** | Bentonite Pellets | 69.0 | to | 74.0 |
| **UPPER PACK:** | 20-40 Silica Sand | 74.0 | to | 75.0 |
| **LOWER PACK:** | 10-20 Silica Sand | 75.0 | to | 92.0 |

**DRILLING METHOD** ROTASONIC
**SAMPLING METHOD** ROTASONIC CORE
**DATE DEVELOPED** 06/20/2002
**WATER LEVEL (FT BTOC)** 60.0 on 06/20/2002
**LOGGED BY** Goodknight, C.
**REMARKS** Centralizers at 92.0 ft. and 40.0 ft.



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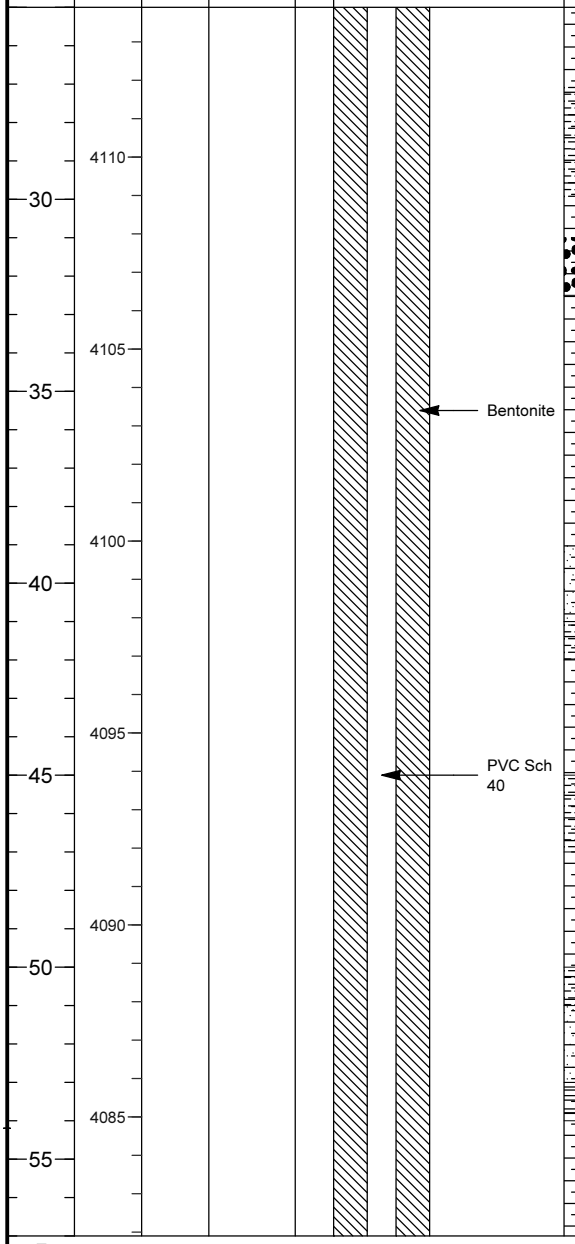


LITHOLOGIC DESCRIPTION

27.0-30.0 ft. thin limonitic siltstone beds scattered through shale/claystone, noncalcareous. Beds are mostly siltstone, yellowish gray (5Y 7/2).

@31.0 layer of gray concretions with pyrite blebs.

32.5-41.0 ft. mainly greenish gray (5G 6/1) claystone and shale, noncalcareous to calcareous, trace of pyrite blebs in more resistant thin beds from 35.0 to 38.0 ft., and trace of gypsum and limonite.

39-41.0 ft. becoming more sandy.

41.0-42.0 ft. hard siliceous nodules, fractured, with limonitic stain, trace calcite.

42.0-45.0 ft. mostly greenish gray shale and claystone (5G 6/1).

45.0-47.0 ft. calcareous nodules, trace of pyrite blebs@45.0 ft. Calcareous siltstone layer with trace of small pyrite blebs, light gray (N7) to medium light gray (N6).

47.0-50.0 ft. mostly shale and claystone, dark greenish gray (5GY 4/1).

50.0-51.0 ft. Layer of calcareous siltstone nodules, light gray (N7).

51.0-53.0 ft. sandy layer (poor recovery), mostly coarse grained sand, some limonite.

53.0-54.0 ft. hard medium bluish gray (5B 5/1) layer of shale.

54.0-58.0 ft. mostly shale/claystone, soft, dark greenish gray (5GY 4/1), slightly calcareous.

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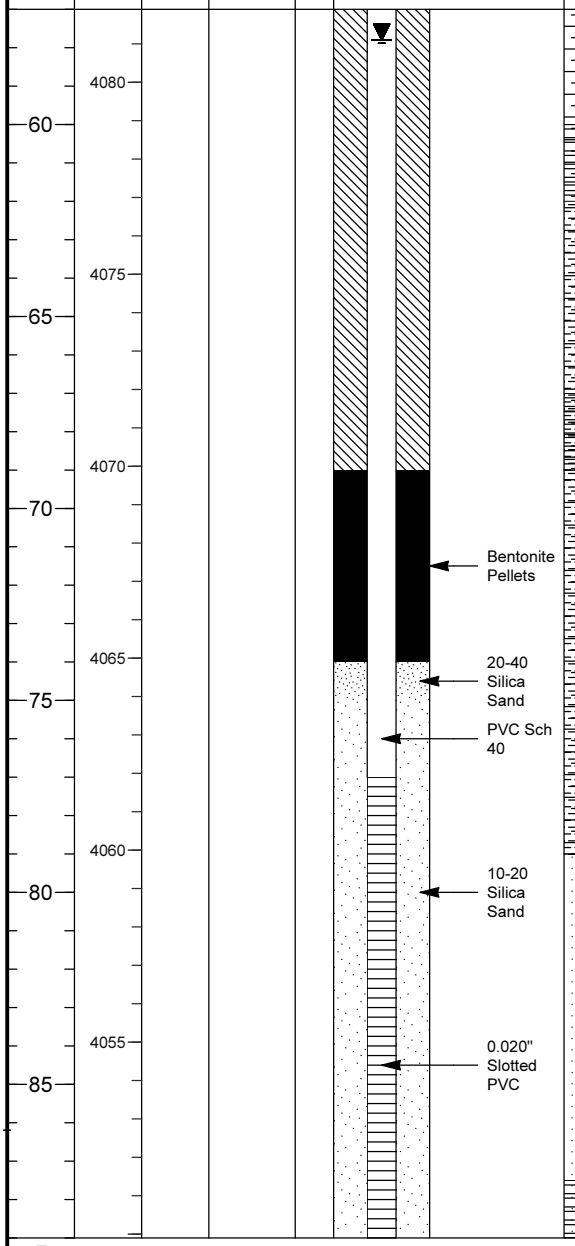


LITHOLOGIC DESCRIPTION

58.0-59.0 ft. layer of calcareous nodules, greenish gray (5G 6/1).

59.0-60 ft. hard calcareous layer, greenish gray (5G 6/1), with some pyrite blebs.

60.0-62.0 ft. calcareous shale, moderately soft, medium gray (N5).

62.0-69.0 ft. alternating beds of calcareous siltstone, trace of pyrite, light gray (N7), and gray shale/claystone.

65.0-67.0 ft. hard calcareous siltstone, light gray (N7) to medium light gray (N6), trace of pyrite, nodular appearance.

67.0-69.0 ft. soft gray shale.

69.0-79.0 ft. hard light gray (N7), siltstone, little to no porosity, pyrite along fractures, some near-vertical healed fractures. Some horizontal fracturing @75.0 ft. and fracturing/porosity along crossbeds.

79.0-91.5 ft. SANDSTONE; gradual coarsening from siltstone to fine grained sandstone from 79.0-81.0 ft., calcareous, finely disseminated pyrite, light gray (N7).

87.0-87.5 ft. some crossbedding and coarsening at base to coarse grained sandstone and conglomerate (up to 1/2" diameter clasts).
87.5-90.0 ft. SHALE and SILTSTONE; calcareous, medium light

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